(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/055486 A3

(51) International Patent Classification[7]: H04B 7/26, H04L 1/18, 12/26, H04Q 7/30, H04L 12/56

(21) International Application Number: PCT/KR2004/003175

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0088263
5 December 2003 (05.12.2003) KR

(71) Applicant *(for all designated States except US)*: **LG ELECTRONICS INC.** [KR/KR]; 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 (KR).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **SEOL, Jee Woong** [KR/KR]; 1003-904, Joo-Mong APT., Gwangjeong-dong, Gunpo-si, Gyeonggi-do 110-031 (KR).

(74) Agents: **BAHNG, Hae Cheol** et al.; KBK & Associates, 15th Floor Yo Sam Building, 648-23, Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH,

[Continued on next page]

(54) Title: REVERSE DATA RATE CONTROLLING METHOD IN MOBILE COMMUNICATION SYSTEM

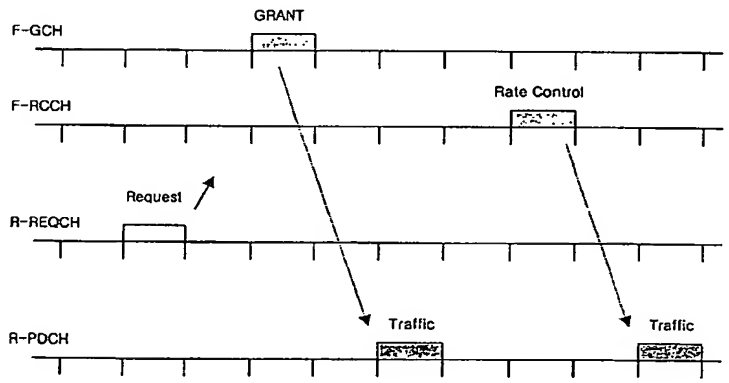
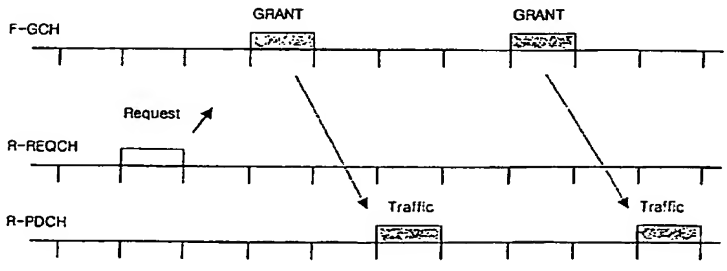


FIG.2



(57) Abstract: The present invention provides a method of controlling a reverse data rate in a mobile communication system. In controlling a reverse data rate by a mobile station of a mobile communication system supporting a H-ARQ system, the present invention includes the steps of receiving a grant message including reverse data rate control information and application range indication information from a base station and controlling the reverse data rate according to the reverse data rate control information included in the grant message, wherein if the application range indication information indicates that contents of the grant message are applied to a corresponding ARQ-channel at a moment of receiving the grant message only, an application range of the contents of the grant message is limited to a prescribed range even if receiving a NAK signal from the base station at a time point of receiving the grant message. Preferably, the prescribed range is an ARQ-channel unit group.

WO 2005/055486 A3

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

(88) Date of publication of the international search report:
1 September 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.